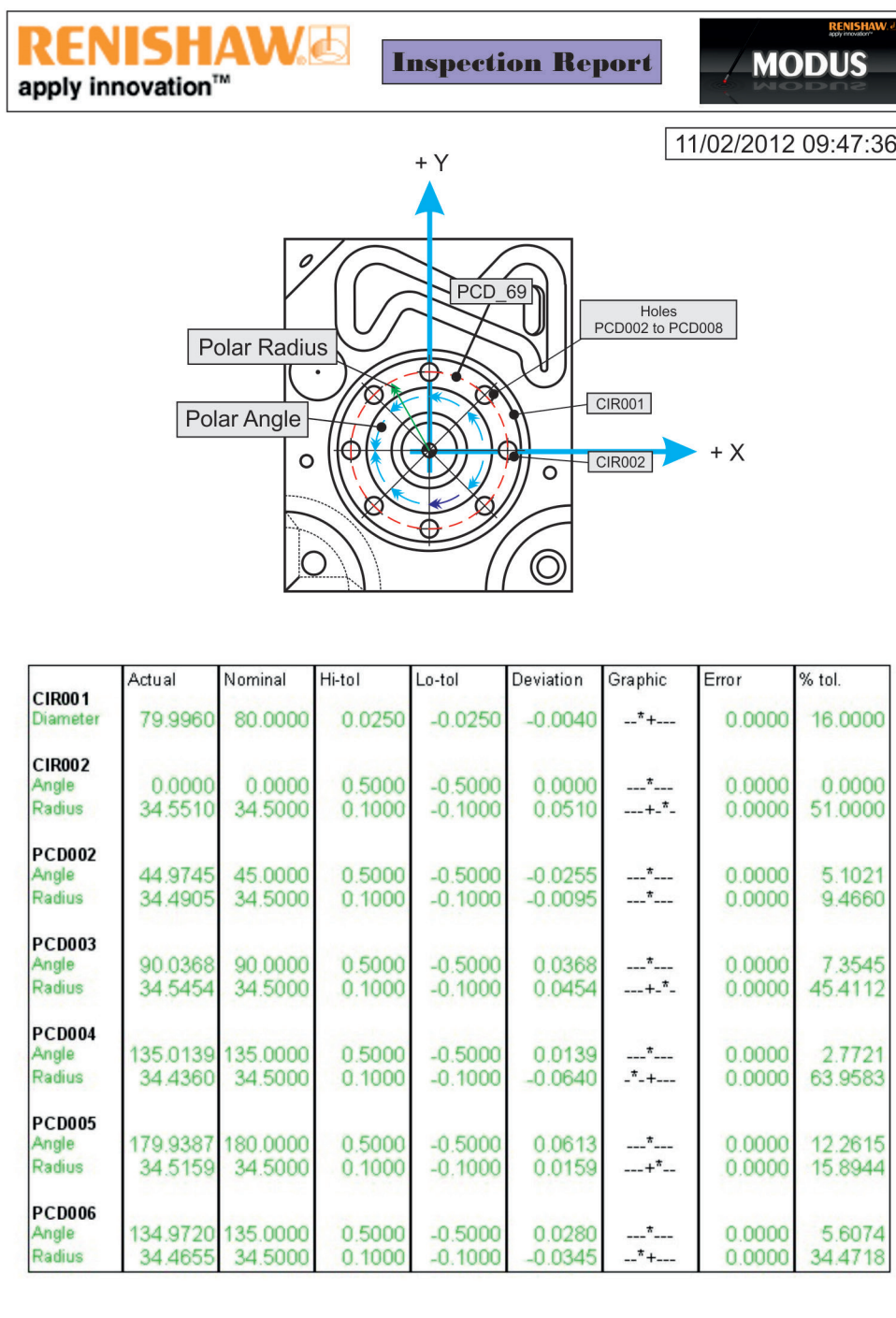


# Create a user-defined PDF report using MODUS reporter



© 2013 Renishaw plc. All rights reserved.

Renishaw® is a registered trademark of Renishaw plc.

This document may not be copied or reproduced in whole or in part, or transferred to any other media or language, by any means, without the prior written permission of Renishaw.

The publication of material within this document does not imply freedom from the patent rights of Renishaw plc.

### **Disclaimer**

Considerable effort has been made to ensure that the contents of this document are free from inaccuracies and omissions. However, Renishaw makes no warranties with respect to the contents of this document and specifically disclaims any implied warranties. Renishaw reserves the right to make changes to this document and to the product described herein without obligation to notify any person of such changes.

### **Trademarks**

All brand names and product names used in this document are trade names, service marks, trademarks, or registered trademarks of their respective owners.

## **Create a user-defined PDF report using MODUS reporter**

## Care of equipment

Renishaw probes and associated systems are precision tools used for obtaining precise measurements and must therefore be treated with care.

## Changes to Renishaw products

Renishaw reserves the right to improve, change or modify its hardware or software without incurring any obligations to make changes to Renishaw equipment previously sold.

## Warranty

Renishaw plc warrants its equipment for a limited period (as set out in our Standard Terms and Conditions of Sale) provided that it is installed exactly as defined in associated Renishaw documentation.

Prior consent must be obtained from Renishaw if non-Renishaw equipment (e.g. interfaces and/or cabling) is to be used or substituted. Failure to comply with this will invalidate the Renishaw warranty.

Claims under warranty must be made from authorised service centres only, which may be advised by the supplier or distributor.

## Trademarks

Windows 98, Windows XP, Windows 2000 and Windows NT are registered tradenames of the Microsoft Corporation.

IBM is the tradename of the International Business Machines Inc

All trademarks and tradenames are acknowledged.

## Contents

1	Create a user-defined PDF report using MODUS reporter .....	6
1.1	Tutorial pre-requisites.....	6
1.2	Tutorial objectives.....	6
2	Introduction.....	7
3	Creating the PDF report using MODUS reporter .....	8

# **1 Create a user-defined PDF report using MODUS reporter**

## **1.1 Tutorial pre-requisites**

- The student should have completed the basic alignment and measurement tutorials.
- The student should have completed the 'Further feature measurement and output' tutorial

## **1.2 Tutorial objectives**

- To introduce the student to the concepts of report creation and basic output of results using MODUS reporting methods

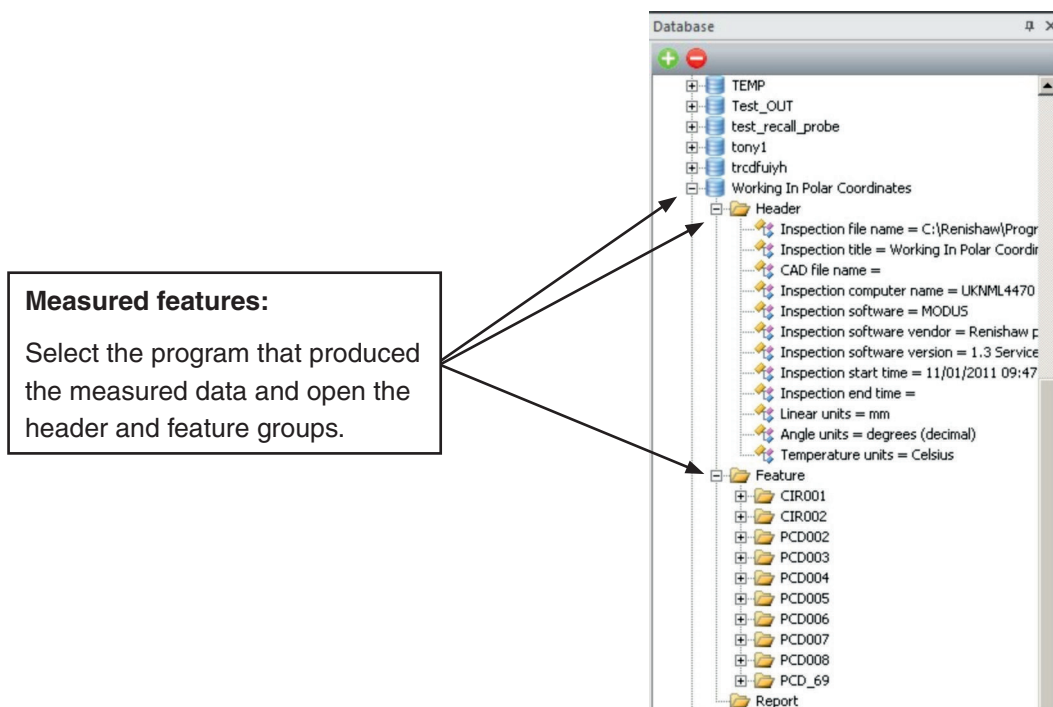
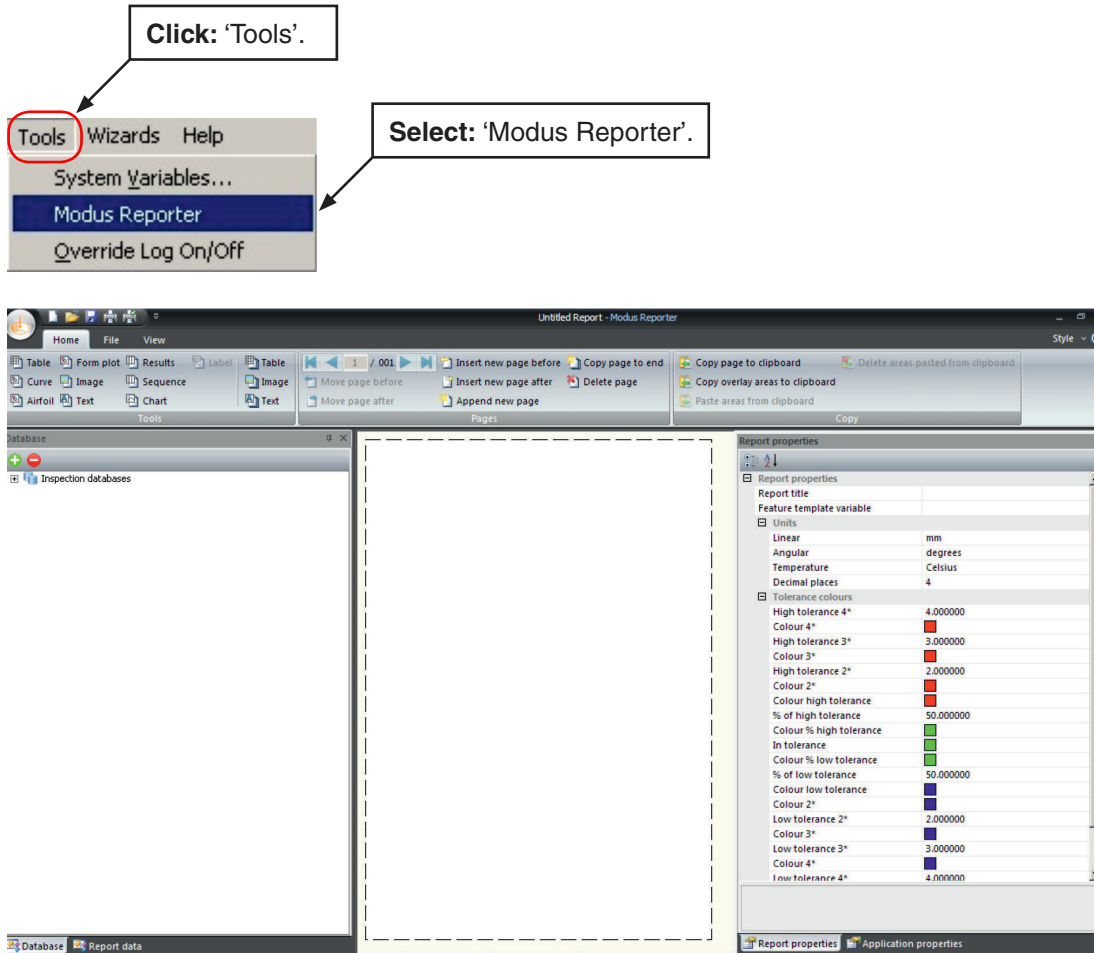
## 2 Introduction

Though MODUS can create simple, text-based reports, MODUS reporter can be used to produce fully configurable graphical inspection reports. This is useful when inspection reports are required to conform to a company-specific template.

This tutorial will use MODUS reporter to generate a PDF inspection report. The examples used throughout are based on features on the Renishaw training block that were measured in earlier tutorials.

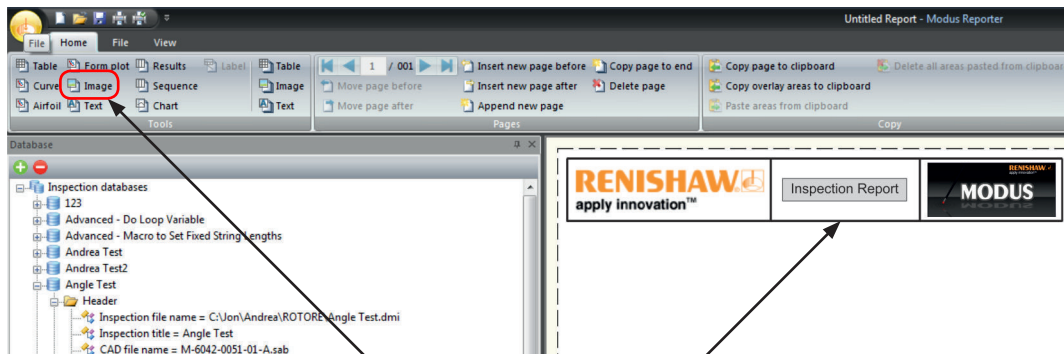
### 3 Creating the PDF report using MODUS reporter

Measure part to generate measured data. Open MODUS reporter from within MODUS to begin:



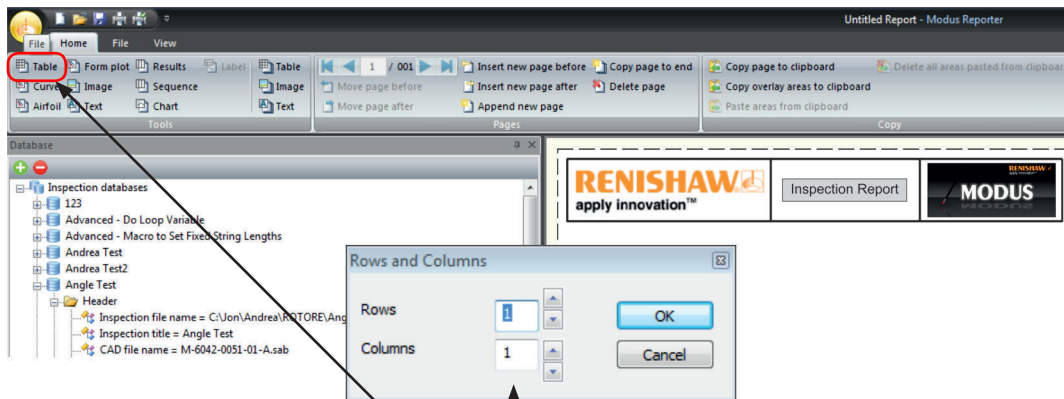


Copy an image into the report page (i.e. pre-defined header):

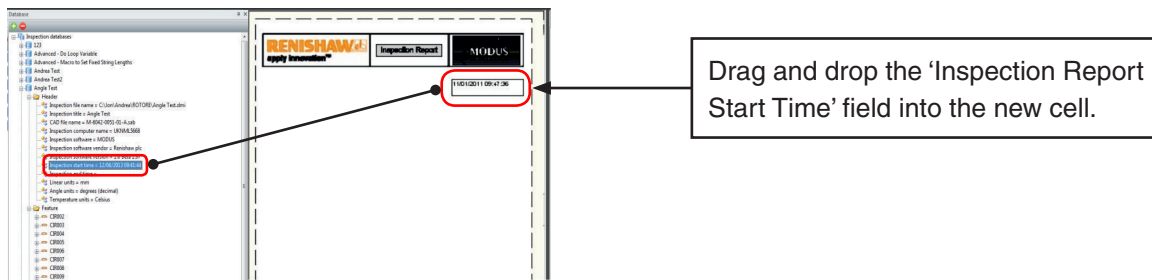
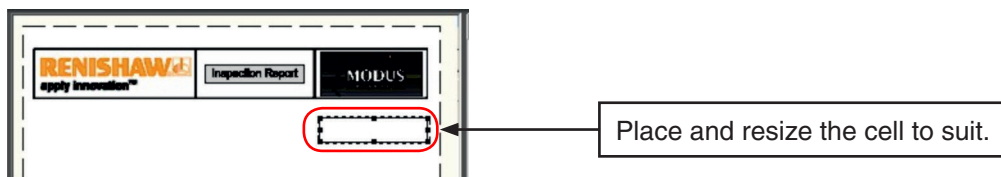


**Select:** 'Image' and create a box for the image on the working page.  
Load the image from an existing file.  
Repeat to add more images - a drawing sketch for example.

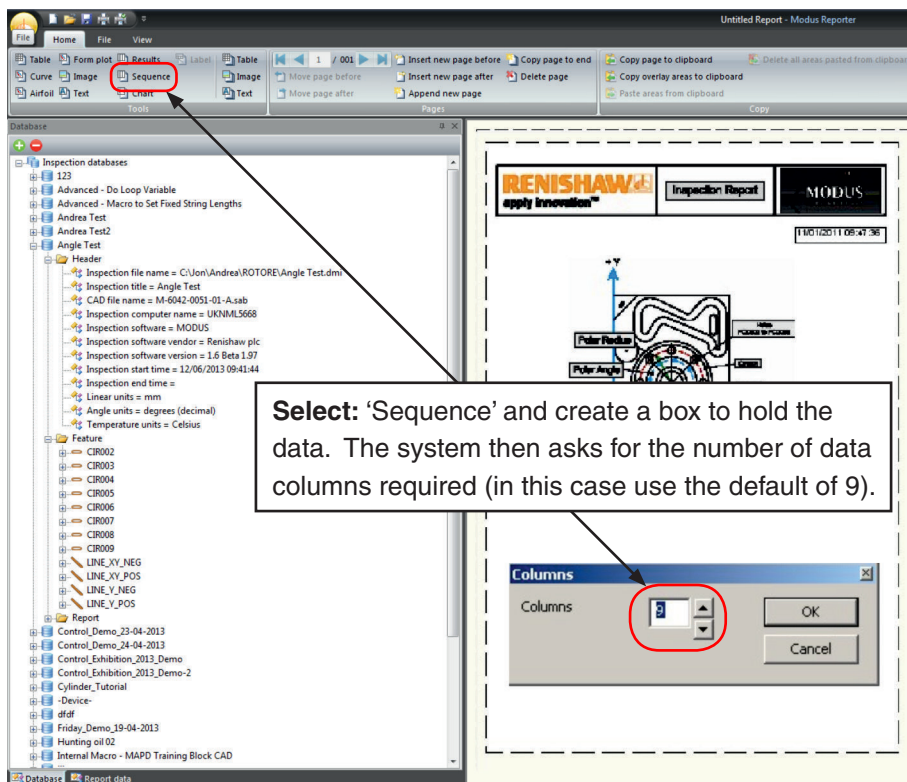
To add further information into the report page (i.e. date and time):



**Select:** 'Table' and then a cell of 1 row and 1 column to hold the date and time.



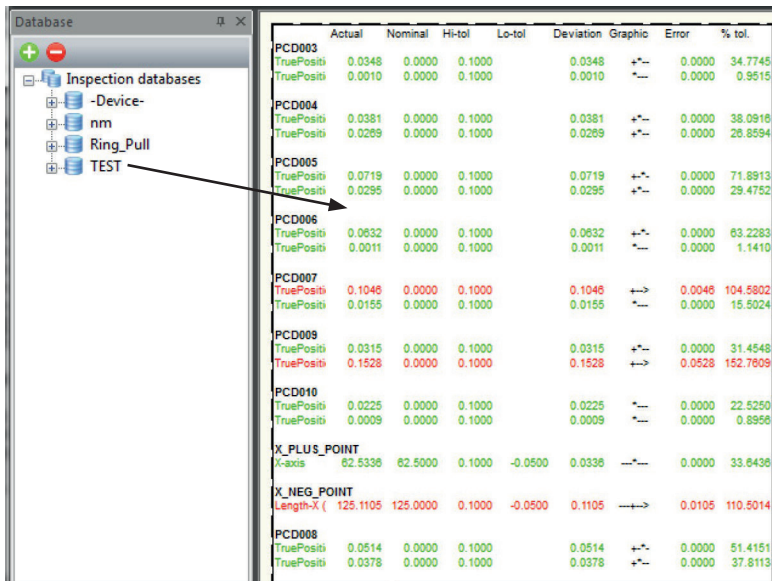
Add measured data to the report:



Result:

	Actual	Nominal	H-tol	L-tol	Deviation	Graphic	Error	Tol. Id.

Select and drag data base into sequence table:



	Actual	Nominal	Hi-tol	Lo-tol	Deviation	Graphic	Error	% tol.
PCD003								
TruePositi	0.0348	0.0000	0.1000		0.0348	+*-	0.0000	34.7745
TruePositi	0.0010	0.0000	0.1000		0.0010	*--	0.0000	0.9515
PCD004								
TruePositi	0.0381	0.0000	0.1000		0.0381	+*-	0.0000	38.0818
TruePositi	0.0289	0.0000	0.1000		0.0289	+*-	0.0000	28.8594
PCD005								
TruePositi	0.0719	0.0000	0.1000		0.0719	+*-	0.0000	71.8913
TruePositi	0.0295	0.0000	0.1000		0.0295	+*-	0.0000	29.4752
PCD006								
TruePositi	0.0632	0.0000	0.1000		0.0632	+*-	0.0000	63.2283
TruePositi	0.0011	0.0000	0.1000		0.0011	*--	0.0000	1.1410
PCD007								
TruePositi	0.1048	0.0000	0.1000		0.1048	+>+	0.0048	104.5802
TruePositi	0.0155	0.0000	0.1000		0.0155	*--	0.0000	15.5024
PCD009								
TruePositi	0.0315	0.0000	0.1000		0.0315	+*-	0.0000	31.4548
TruePositi	0.1528	0.0000	0.1000		0.1528	+>+	0.0528	152.7809
PCD010								
TruePositi	0.0225	0.0000	0.1000		0.0225	*--	0.0000	22.5250
TruePositi	0.0009	0.0000	0.1000		0.0009	*--	0.0000	0.8956
X_PLUS_POINT								
X-axis	62.5336	62.5000	0.1000	-0.0500	0.0336	*--	0.0000	33.6436
X_NEG_POINT								
Length-X (	125.1105	125.0000	0.1000	-0.0500	0.1105	+>+	0.0105	110.5014
PCD008								
TruePositi	0.0514	0.0000	0.1000		0.0514	+*-	0.0000	51.4151
TruePositi	0.0378	0.0000	0.1000		0.0378	+*-	0.0000	37.8113

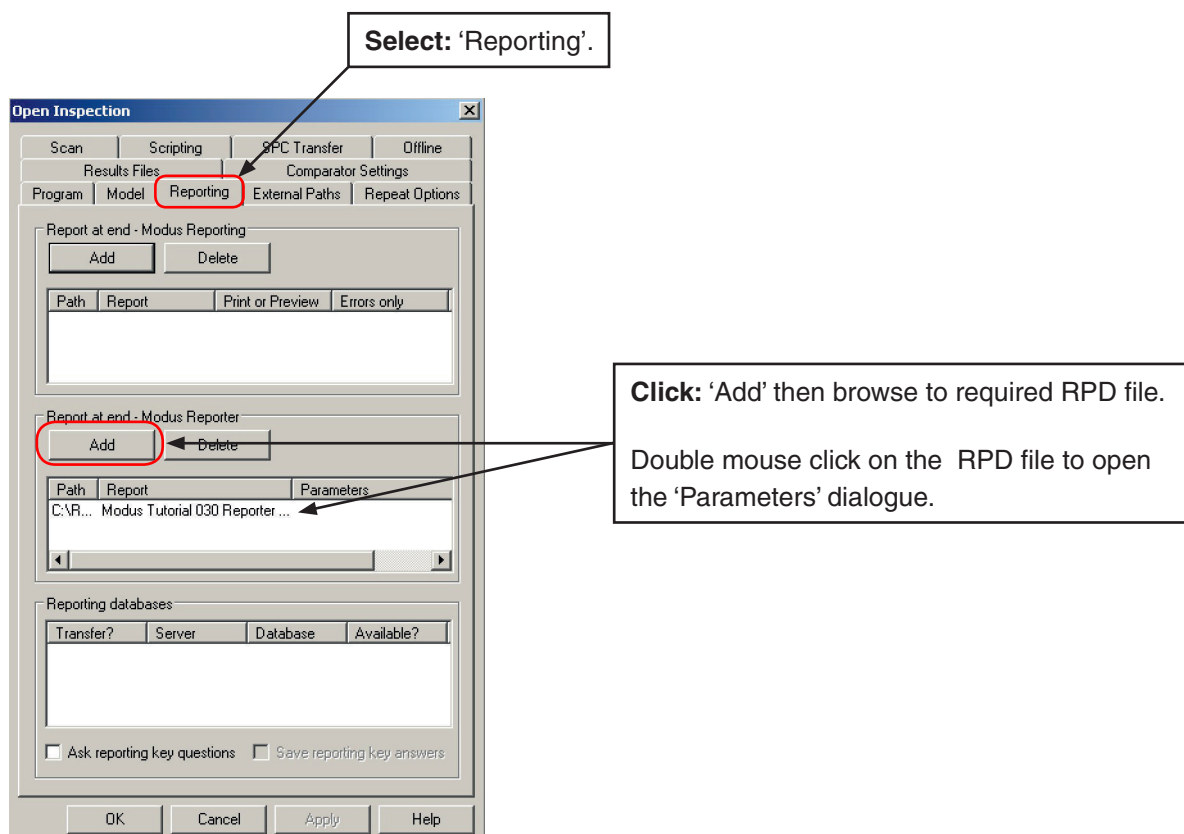
The report will automatically generate the number of pages required to output all features in the database.

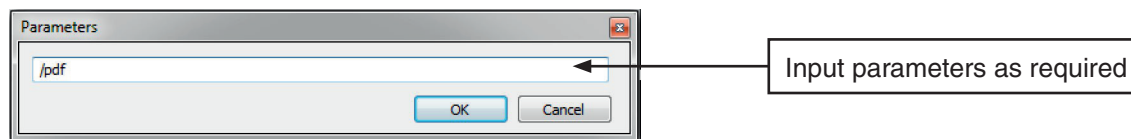
When completed save the template, this will create a “RPD” file.

Then close it.

Now close and re-open the part program and set it to run ‘Reporter’ when the program finishes.

**NOTE:** The “ENDFIL” instruction must be executed at the end of the program.



**Basic parameter examples:**

/p - Prints the report data to the default printer.

/pdf - Prints the report data to a PDF file, using the same filename as the report filename. Appends the data to the PDF if this already exists.

/pdf /pdfout "PDFname" - Prints the report data to a PDF file of the specified filename (enclosed in double quotes). Appends the data to the PDF if this already exists.

Example: /pdf /pdfout "C:\Renishaw\Reports\DataXXX.pdf".

This page intentionally left blank

**Renishaw plc**  
New Mills, Wotton-under-Edge,  
Gloucestershire, GL12 8JR  
United Kingdom

**T** +44 (0)1453 524524  
**F** +44 (0)1453 524901  
**E** [uk@renishaw.com](mailto:uk@renishaw.com)  
[www.renishaw.com](http://www.renishaw.com)

**RENISHAW**   
**apply innovation™**

**For worldwide contact details,  
please visit our main web site at  
[www.renishaw.com/contact](http://www.renishaw.com/contact)**



H - 1000 - 5323 - 01